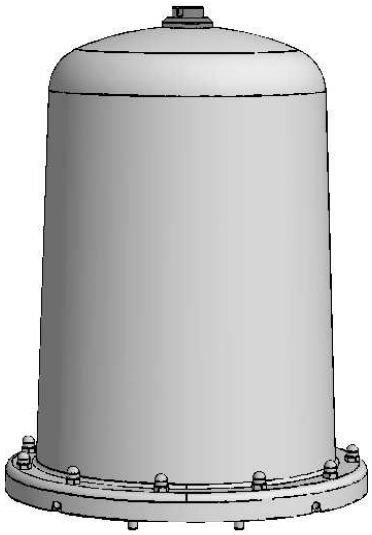
Scan-360 Quick Start Guide

1. System Overview

The Scan-360 radar provides 360-degree detection up to 200m, is powered via POE, and can control up to four cameras. This guide is based on radar website version **v3.05h**.

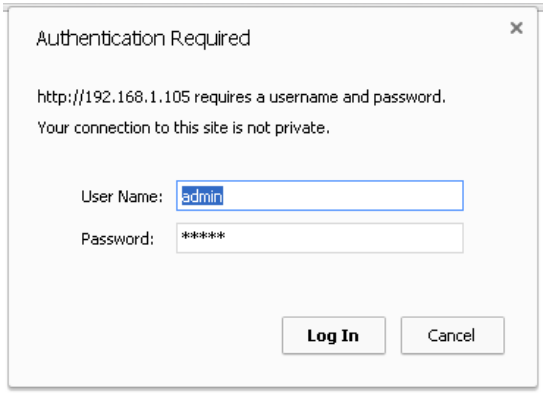
The following assumes that the user's Laptop or PC has access to the Internet so that a map can be shown.



2. Network Setup

Radar default settings

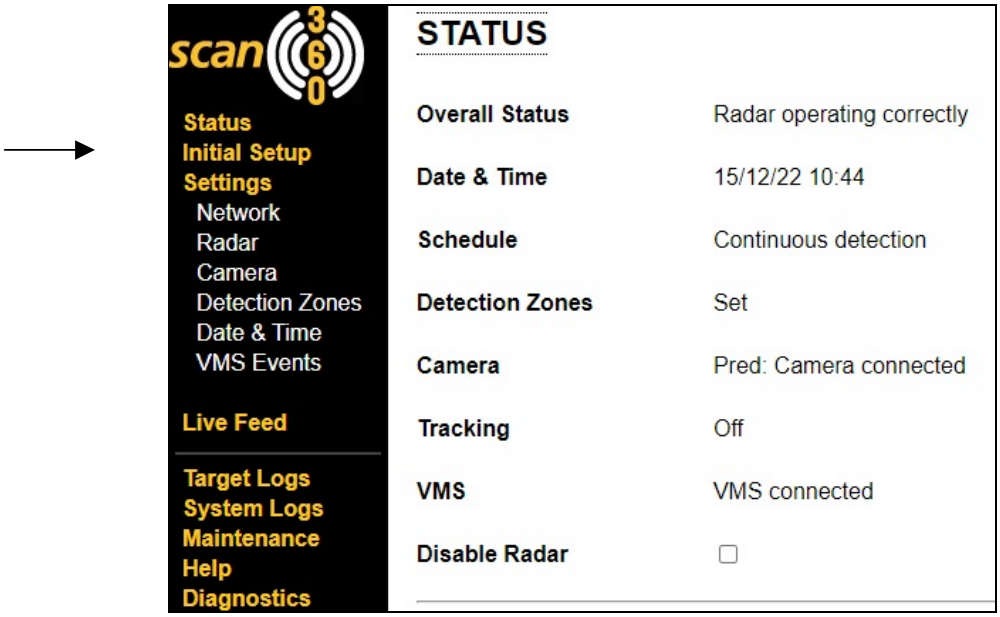
- IP: 192.168.1.105
- Login: admin / admin



3. Initial Setup (4 Steps)

- From the radar website landing page select Initial Setup.

Note that it isn't essential to use Initial Setup as all the settings can be configured elsewhere. But it is a good way to get a basic system working if new to the radar.

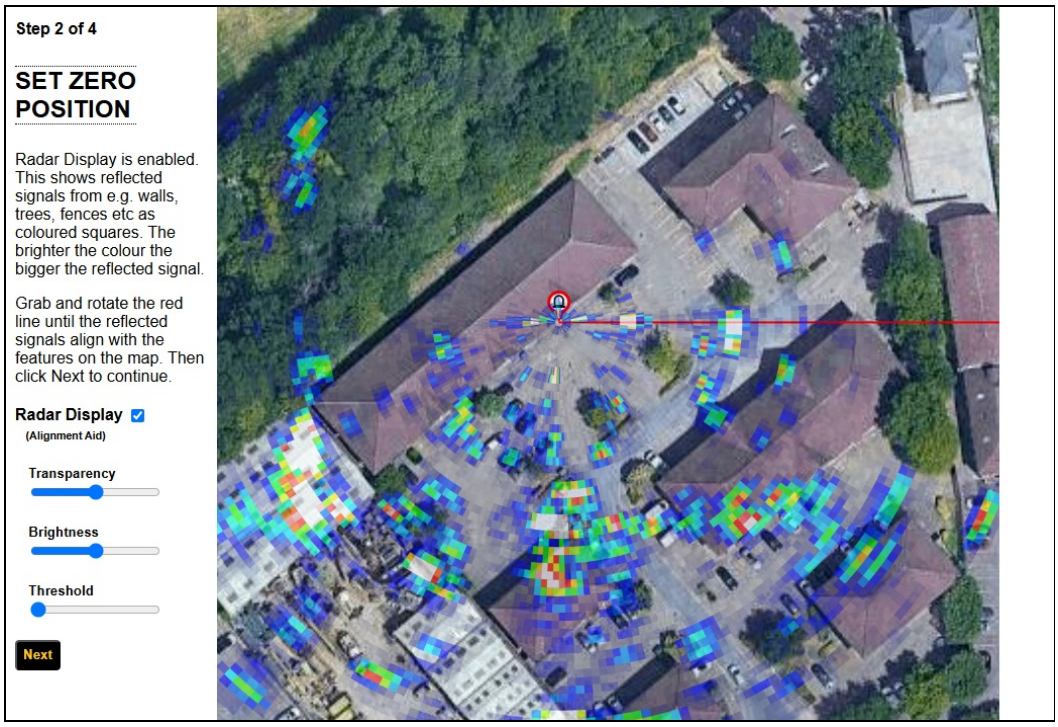


Step 1 — Set Radar Height

- Enter the installed height of the radar.

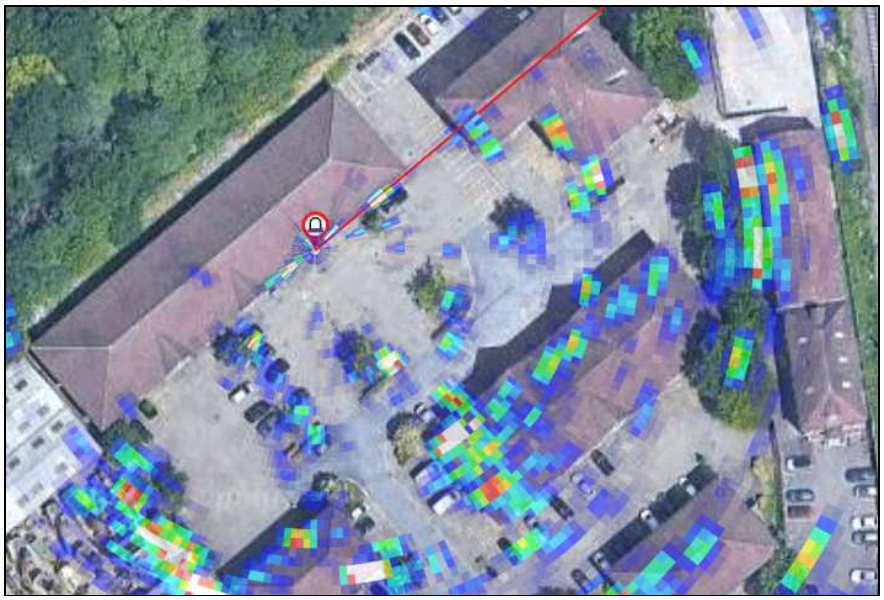
Step 2 — Map, Radar Position and Alignment

- Select **Automatically Download Map** (note the radar uses GPS to download a map and must able to see the sky).
- When the map appears drag the radar icon to the actual installed location. Press **Next**.
- The next step is aligning the radar to the map.
- The **Radar Display** is automatically enabled. This superimposes the radar return signal onto the map.
- The picture below shows the radar return signals as coloured squares on top of the map image. The higher the radar return signals the brighter the colour of the square. Reflecting features in the area such as buildings, vehicles, walls, trees, lampposts etc generate these brighter squares.
- Adjust brightness, transparency and threshold as needed.
- The first picture below shows the radar before alignment and so the radar return signals do not match up with the features on the map.



Before alignment

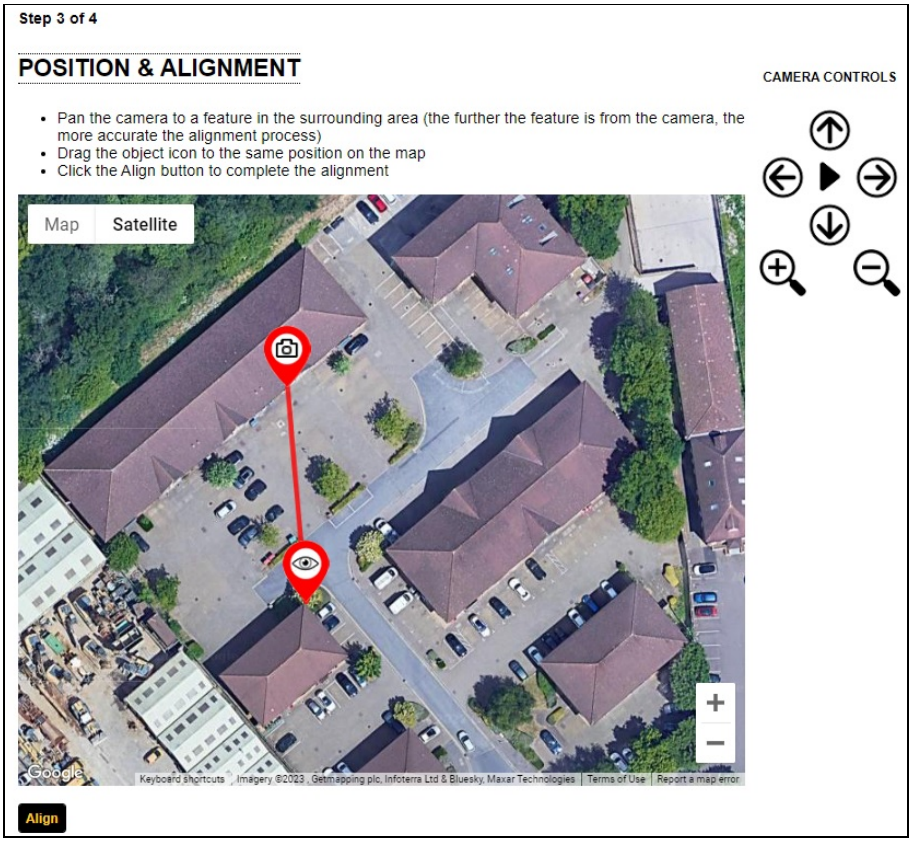
- Rotate the red “Zero line” using the mouse - the radar return signals will rotate as well.
- Move the red line until the radar return signals align with the features on the map. Only use permanent structures for alignment as the map may not be recent. As an example, in the picture below, unlike the picture above, the bright radar return signals are now along the near faces of the buildings.
- When ready click **Next**.



After Alignment

Step 3 — Add & Align Cameras

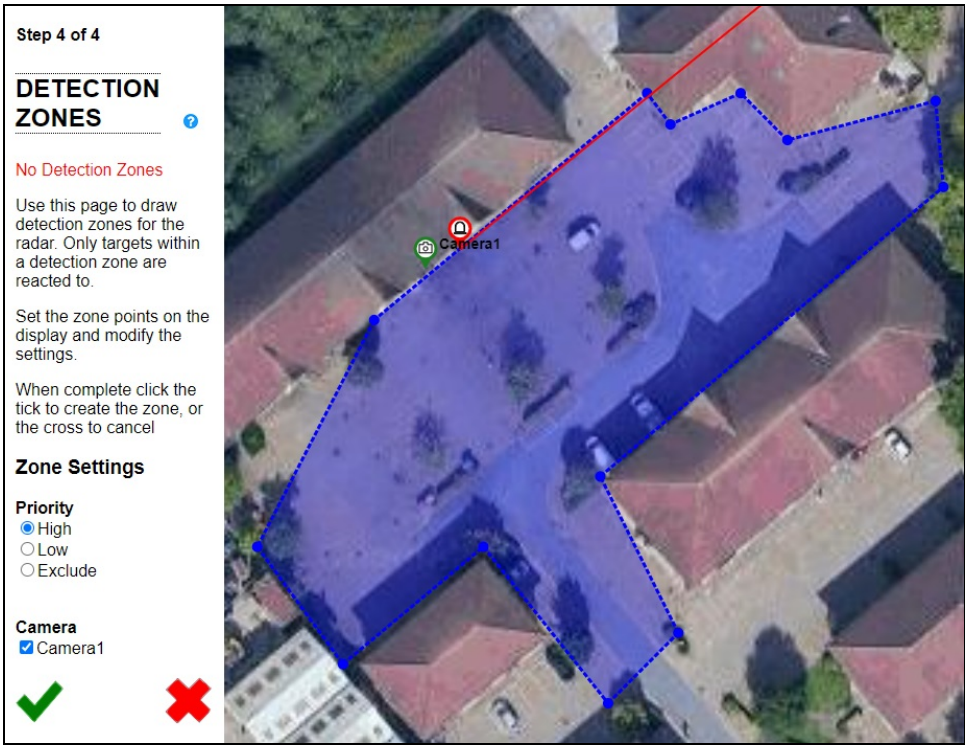
- Select **Add New Camera**, then enter the camera details and press **Next**.
- The camera must now be aligned to the radar so that the radar knows which way to point it to see a target.
- Select **Align Camera**.
- Move the red camera icon to where the camera is located. Click **Nex**t.



- Move the Eye icon (see image above) to a feature that can be seen by the camera. In the picture above, the corner of a roof is used.
- View the camera video image in a separate browser window or App.
- Move the camera using the Camera Control icons at the RHS of the web page (see above) or using the cameras own controls directly.
- Once the camera image is centred on the feature, press the **Align** button.
- Tilt and Zoom settings can be entered for the camera at this stage but this is not covered here.
- Further cameras can be added up to a maximum of 4.
- When finished select “Continue without adding more cameras”.

Step 4 — Draw Detection Zones

- Now to draw detection zones in the areas where targets are to be detected.
- Click on the Add Zone icon, and then select Free Draw from the pop-up box.



- Click on the map (see above) to add node points to define the zone outline.
- Node points can be moved after entry. To restart press the red cross.
- The Priority of the zone can be set as High, Low or Exclude. If there are simultaneous targets then the camera will favour the High priority target.
- Exclude zones can be used to prevent detections within specific areas of Low or High priority zones e.g. around a tree.
- Any area not covered by a High or Low priority zone will not generate targets.
- Select the camera to be used for the zone from the Camera list.
- Click on the green tick when the zone is ready. The finished zone will show as Blue (High priority), Yellow (Low priority) or Black (Exclude). The zone can be edited or deleted at any time by clicking on it.
- Add further zones as required.
- When ready press **Continue** to end Initial Set-up.
- The radar should now detect targets if in the new zones and steer the camera(s) to them.

4. Further points

Some zone options are not available in Initial Set-up. Firstly the Preset used by the zone is always set to Preset 1 when in Initial Set-up. Secondly the time schedule is set to continuous for all zones created in Initial Set-up.

Presets hold the sensitivity settings to be used by the radar. Different Presets can be applied to different zones in order to optimise overall performance (e.g. a zone with trees may need a reduced sensitivity Preset to lower the chance of unwanted alarms). Outside the Initial Set-up procedure, Presets can be adjusted in the Radar web page and then applied to the zones via the Detection Zones web page (click on the zone for the options).

If required, Time schedules can be set up in the Date & Time radar web page. These can then be applied to individual zones in the Detection Zones web page.

Outside Initial Set-up some additional settings you may want to change include:

Radar Page

- Target Threshold and Clutter values for the 4 Presets. Detection zones can then be set (on Detection Zones page) to use the best Preset
- Target Tracking. If enabled (which is recommended) the radar assigns a track to each target and keeps the camera on one target rather than moving around between them. There is also an option for only alarming when a track reaches a user set number of detections, which can reduce unwanted alarms (e.g. try setting to 2 or 3). Note that on the Live Feed page the user can manually change the target track being followed.
- Enable First Target Alarms. This should be deselected if not using Target Tracking and if occasional false alarms are a problem

Camera Page

- Camera tilt and zoom positions for the 6 default distance ranges

Date & Time Page

- Setting a time zone
- Creating operational schedules if required

Detection Zones Page

- Assigning an appropriate Target Threshold & Clutter Preset to each zone if the default Preset 1 is not optimum for them
- Assigning schedules to zones if they should not detect continuously

VMS Events Page

- Setting VMS details if the radar should send out alarm on detection

Please see the full operating manual for further details.